ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION | INITIALS | ID NO. | DATE |
|---------------------------|-------------|----------|---------|
| FEE DETERMINATION | 1 | Mich | 110115 |
| O.I.P.E. CLASSIFIER | | - Cill | 10 PILL |
| FORMALITY REVIEW | | - JCJ(-J | 0/27/20 |
| RESPONSE FORMALITY REVIEW | | | 003/0 |

INDEX OF CLAIMS

| • | Rejected | N Non-elec | cted |
|---|----------------------------|------------|------|
| | Allowed | IInterfere | nce |
| _ | (Through numeral) Canceled | A Appeal | |
| ÷ | Restricted | OObjected | ı |

| | | | | | | ÷ | - | •••• | •••• | •••• | • • • • • • • |
|----------|----------|----------|------------|----------|-----------|----------|--------------|--------|----------|----------|---------------|
| - | | | | | | | | | | | |
| <u></u> | laim | 4 | | | | Da | te | | | | _ |
| | Original | 120 | | 130 | 17 | ション | | | | - | |
| | J | 1 | | ケ | 1 | 1. | 1 | \top | \top | + | +- |
| - | , 2 | | 1/ | 1 | 1 | | - | +- | + | - | + |
| | 3 | | | 17 | | 1 | ╆ | ╁ | + | + | +- |
| - | 1 | 1 | 1 | Ť | 1 | + | † | ╁ | + | + | + |
| | | \top | 1 | | İ | 1 | 1- | ╁ | + | + | ╫ |
| | 6 | | | 1 | 1 | 1 | T | +- | + | + | +- |
| Г | 7 | 1 | N | N. | N | N | T | + | ╅ | ┪ | +- |
| Γ. | 8 | : | · 1 | 10 | 1 | N | T | \top | + | _ | + |
| Ĺ | 9 | - | 1 | 10 | 1 | / | 1 | 1 | \top | 1 | _ |
| | 10 | | 1 1 | 1 | 1 | T | !- | 1 | + | + | |
| | 11 | | | П | П | П | 1 | T | \top | 1 | |
| | 12 | | П | П | П | П | Γ | T | 1 | \top | \top |
| L | 13 | | | П | П | П | Γ | Τ | 1 | \top | |
| L | 14 | | П | П | | | | Τ | T | 1 | |
| L | 15 | | Ш | | \coprod | T | Π | Τ | 7 | Т | \Box |
| L | 16 | | y | V | X | 1 | | Τ | | \top | $\neg \neg$ |
| L | 17 | <u> </u> | N | N | N | N | | | | | |
| <u> </u> | 18 | L | <u>L</u> . | V | ./ | <u>~</u> | | L | | | |
| L | 19 | _ | L. | | 7 | v | | | Ι | \prod | \prod |
| L | 20 | | | | | | | Γ | | Τ | \Box |
| | 21 | | | | | | Г | 1 | 1 | 1 | \Box |
| L | 22 | | | | | | | Π | T | 1 | |
| | 23 | | | | | | | Г | T | Τ | \sqcap |
| L | 24 | | | | | | | Γ | T | Т | \Box |
| L | 25 | _ | | | | | | | | Г | |
| _ | 26 | _ | | _ | | | _ | | | | \Box |
| | 27 | | | | | | | | | | |
| _ | 28 | | | | _ | | | L | | | \square |
| _ | 29 | | | | _ | | _ | L | L | | |
| _ | 30 | | | \dashv | _ | | | | L | | LJ |
| <u>_</u> | 31 | | _ | _ | | _ | | L | L | | Ш |
| <u></u> | 32 | _ | _ | _ | _ | \dashv | | _ | _ | 丄 | Ш |
| L | 33 | | | _ | 4 | _ | _ | _ | L | <u> </u> | Ш |
| ┝- | 34 35 | - | | | 4 | 4 | _ | _ | <u> </u> | ▙ | Ш |
| - | 36 | | | -+ | 4 | | _ | | \vdash | _ | \sqcup |
| ⊢ | | - | \dashv | - | \dashv | \dashv | _ | _ | | ⊢ | \vdash |
| <u> </u> | 37 38 | - | \dashv | \dashv | + | - | _ | | _ | - | Н |
| <u> </u> | 39 | -+ | - | \dashv | \dashv | + | - | _ | _ | - | Н |
| - | 40 | - | + | | \dashv | + | \dashv | | \vdash | Н | \vdash |
| - | 41 | -1 | \dashv | \dashv | + | - | _ | | <u> </u> | _ | Н |
| - | 41 | | \dashv | - | 4 | 4 | _ | | <u> </u> | _ | Ц |
| - | 43 | - | | \dashv | + | + | _ | _ | | Н | \square |
| - | 44 | \dashv | \dashv | -+ | + | \dashv | - | _ | | Ш | \vdash |
| <u> </u> | 45 | | | + | + | 4 | - | | _ | | \dashv |
| - | 46 | + | \dashv | + | + | + | - | _ | | \vdash | \dashv |
| | 47 | \dashv | + | -+ | + | + | \dashv | - | _ | \vdash | \dashv |
| | 48 | \dashv | + | | + | + | \dashv | | | \vdash | \dashv |
| _ | 49 | + | + | + | \dashv | + | \dashv | - | _ | \vdash | |
| | 50 | \dashv | \dashv | + | + | + | \dashv | | | \vdash | \dashv |
| | | 1_ | | | | | | | | | |

| Ì | Res | tri | cte | d | | | | | | | | 2 | | ••• | | • • • • | | ••• |
|---------------|----------|-----------|-----|----------|---|---|----|---|---|---|----|-----------|---|--------------|-----------|---------|--------|-----|
| Cla | aim | Т | _ | _ | _ | _ | | | _ | a | tο | | | | | | _ | _ |
| | Г | t | T | - | T | _ | Γ | _ | ř | _ | | | | Ŧ | | T | | Γ |
| Final | riginal | | | | l | | | i | | | | į | | | | | | |
| ш. | 0 | ╀ | + | _ | ╀ | | L | - | L | | L | | L | 4 | | ╀ | | _ |
| | 51 | - | + | _ | L | _ | L | _ | _ | _ | L | _ | _ | 4 | | L | _ | |
| _ | 52 53 | L | + | _ | L | _ | L | _ | | | L | | | 4 | _ | L | 4 | _ |
| | | L | + | _ | L | _ | L | _ | | | L | _ | | 1 | | L | ╛ | |
| _ | 54 55 | L | + | | L | _ | L | _ | _ | _ | L | _ | _ | 4 | | Ļ | 4 | _ |
| _ | 56 | - | + | | L | _ | L | - | | _ | L | 4 | | \downarrow | | ļ. | 4 | _ |
| - | 57 | ┝ | ╁ | _ | H | 4 | Ļ. | 4 | | 4 | _ | \dashv | - | + | | ┞ | 4 | _ |
| _ | 58 | - | ╁ | - | - | - | _ | 4 | _ | 4 | _ | 4 | _ | + | | ╀ | 4 | _ |
| - | 59 | - | ╁ | - | H | - | _ | + | - | ┥ | _ | - | _ | + | | ŀ | + | _ |
| - | 60 | \vdash | + | _ | H | + | _ | + | | 4 | - | 4 | | ╁ | _ | ┝ | + | |
| \dashv | 61 | - | t | _ | H | - | _ | + | _ | 4 | _ | ┪ | - | $^{+}$ | | ┝ | + | _ |
| \dashv | 62 | | + | 7 | Н | + | _ | + | - | + | | + | | + | _ | H | + | |
| T | 63 | - | t | - | - | + | - | + | | + | | + | - | + | | H | + | - |
| 7 | 64 | | t | \dashv | - | 7 | _ | + | _ | + | - | + | _ | ╁ | | - | $^{+}$ | |
| \dashv | 65 | _ | t | 7 | _ | 1 | _ | + | | 1 | - | + | | + | _ | H | $^{+}$ | - |
| | 66 | | t | + | | + | _ | 1 | - | + | | + | | ╁ | - | H | + | _ |
| _ | 67 | | T | 1 | | 7 | | + | | 1 | _ | + | | t | _ | - | + | |
| $\overline{}$ | 68 | _ | t | 7 | | + | - | † | | † | | † | | ╁ | _ | - | + | _ |
| \rightarrow | 69 | _ | T | 1 | - | † | - | † | | † | | t | - | t | ┪ | | + | - |
| \rightarrow | 70 | _ | T | Ť | - | Ť | _ | † | | † | | † | | t | 1 | _ | + | - |
| | 71 | _ | ┝ | + | _ | + | - | + | - | + | - | + | | ╀ | - | | ╁ | _ |
| | 72 | | H | + | | + | - | + | - | + | | + | _ | ┝ | 4 | _ | + | |
| | 73 | _ | H | + | _ | † | _ | + | _ | + | _ | + | - | H | + | _ | ╁ | _ |
| | 74 | _ | - | + | _ | † | _ | t | _ | t | _ | $^{+}$ | | ┢ | + | | t | - |
| 7 | 75 | | Т | 1 | _ | † | _ | t | | t | | \dagger | - | H | + | _ | ╁ | |
| | 76 | _ | | Ť | | † | | † | _ | t | _ | t | - | ┢ | 7 | - | t | - |
| | 77 | | _ | † | _ | t | _ | Ť | | t | | t | _ | - | 1 | | t | - |
| 7 | 78 | | | T | _ | t | _ | t | | † | | t | - | Н | + | | t | - |
| 7 | 79 | | | Ť | _ | t | | † | | t | _ | t | _ | - | † | - | t | _ |
| 1 | 30 | | | T | _ | T | _ | t | | t | | t | | - | † | - | t | - |
| 7 | 31 | | | Ť | _ | T | _ | T | | t | | T | _ | Н | † | | r | |
| 18 | 32 | | | Ţ | | T | | 1 | | T | | t | | | † | _ | T | _ |
| 8 | 33 | ٦ | _ | T | _ | T | | T | | Γ | | T | | | Ť | _ | Г | |
| 8 | 34 | | | | | T | | T | | T | | T | | | † | | | _ |
| _ | 35 | \Box | | Ι | | Γ | | | | Γ | | Ī | | | T | | Γ | _ |
| | 6 | | | L | | | | | | Γ | | | | | T | | | _ |
| | 7 | | | I | | | | | _ | | | | | | T | | | _ |
| _ | 8 | | | L | - | | | Ĺ | | | | | | | T | | | |
| 8 | 9 | _ | | | _ | L | | | Ï | | | | | | T | | | |
| 9 | 0 | | | | | | | | | | | Γ | Ī | | T | | | |
| 9 | 1 | Ţ | _ | Γ | _ | | | | | | | Γ | 1 | | T | 7 | _ | |
| 9 | 2 | _ | | Г | _ | Г | | | T | Г | | Г | 7 | | T | 7 | _ | |
| 9 | 3 | | | | | Г | | | | - | | | 7 | _ | t | - | _ | - |
| 9 | 4 | 7 | | Γ | | | | | ٦ | _ | ٦ | Т | 7 | _ | t | + | _ | |
| 9 | 5 | \dagger | _ | T | 7 | | ┪ | _ | 1 | | 7 | Н | + | | \dagger | 1 | | |
| 9 | 6 | 1 | _ | Γ | | | | - | 1 | _ | 7 | | + | | † | + | - | ١ |
| 9 | 7 | + | | Γ | ٦ | | 7 | _ | 1 | | | - | † | | t | 1 | | 1 |
| 9 | 8 | 7 | | | | | 1 | | 1 | - | | | † | _ | t | + | | 1 |
| 9 | 9 | 7 | _ | | 7 | _ | ┪ | _ | 1 | _ | 7 | _ | + | _ | t | 7 | - | Н |

| Claim | <u></u> | | | | | | _ | _ | _ | | | | | | _ | |
|---|----------|---------------|----------|-----------|----|---|----------|----|---|-----|----------|---------|---|----------|-----------|-----------|
| 101 | Cla | $\overline{}$ | _ | _ | Т- | | Т | -т | D | ate | <u> </u> | _ | - | | _ | |
| 101 | Final | Original | | | | | | | | | | | | | | |
| 102 | | | | | † | | T | 7 | | + | | †- | † | | H | $^{+}$ |
| 104 | | 102 | | | T | | T | 7 | _ | 1 | | T | † | | | \dagger |
| 106 | | 103 | | | T | | | 1 | | T | _ | | Ť | _ | H | $^{+}$ |
| 106 | | | | | T | _ | Γ | 1 | _ | T | _ | Τ | 1 | | Η | † |
| 107 | L | \mapsto | | | L | _ | L | | | I | | | | | | I |
| 108 | | ightharpoonup | \dashv | | 1 | | L | 1 | | | | | I | | | Ι |
| 109 | <u> </u> | | _ | _ | L | | L | 1 | | 1 | | L | 1 | | | Γ |
| 110 | | - | | | Ļ | | L | 4 | | 4 | | L | 1 | _ | _ | L |
| 111 . | _ | | | | ╀ | _ | L | + | | + | | L | + | 4 | _ | - |
| 112 | | | + | _ | ╀ | | H | + | | ╀ | | ļ | + | - | _ | ╀ |
| 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 144 145 146 147 148 149 | | | + | _ | + | _ | - | + | _ | ╁ | - | - | ╀ | 4 | | ╀ |
| 114 | | | \dashv | _ | H | - | \vdash | + | - | ╁ | - | ┝ | + | + | _ | ╁ |
| 115 | | | 7 | _ | ┢ | | ┝ | + | - | ╁ | - | H | ╁ | \dashv | - | +- |
| 117 | | | T | | T | - | | † | | ✝ | | - | t | 1 | | \vdash |
| 118 | | 116 | 1 | | Γ | | _ | Ť | _ | T | | | † | 7 | _ | T |
| 1119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 142 143 148 149 | | 117 | | | Γ | | | T | | 1 | | | T | 1 | | _ |
| 120 | | 118 | | | | , | - | Ι | _ | | | - | T | 1 | | T |
| 121 | - | | | | L | | | Ι | | Γ | 7 | | | Ţ | | Г |
| 122 | | 120 | \perp | | L | İ | | Ţ | | Γ | I | | Γ | T | _ | Г |
| 123 | | | | | | 1 | _ | | | | | | | | | Г |
| 124 | | | _ | | | | | | | | | | | | | |
| 125 | | | _ | _ | _ | 4 | _ | 1 | | L | 1 | | L | 1 | | |
| 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | | - | 4 | | 1 | | ļ | | L | 4 | | L | 1 | | L |
| 127 | _ | \rightarrow | + | 4 | _ | + | _ | ╀ | | _ | 4 | | L | 1 | _ | |
| 128 | | | + | 4 | _ | + | _ | 1 | _ | L | 4 | | _ | 4 | _ | _ |
| 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | | | + | + | _ | ł | | H | - | _ | + | | ŀ | + | - | _ |
| 130 | | | + | + | - | ł | _ | ├ | _ | | + | _ | ┝ | + | 4 | _ |
| 131 132 133 134 135 136 137 138 139 140 141 142 143 144 144 145 146 147 148 | - | | ╁ | + | _ | t | - | H | - | _ | + | | - | + | - | _ |
| 132 133 134 135 136 137 138 139 140 141 142 143 144 144 145 146 147 148 | | - | 十 | † | _ | t | | t | 7 | _ | t | _ | H | t | - | - |
| 134 135 136 137 138 139 140 141 142 143 144 144 145 146 147 148 | | | \top | 1 | | t | | T | 1 | | t | | - | + | 7 | _ |
| 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | | | Ţ | 1 | _ | Ī | _ | T | 1 | | † | | | t | 1 | _ |
| 136 137 138 139 140 141 142 143 144 145 146 147 148 | | | | I | | Ī | | | 1 | | T | - | _ | T | 1 | |
| 137 138 139 140 141 142 143 144 145 146 147 148 | | | \perp | 1 | | | | L | | | Ι | | | Ι | | |
| 138 | | | 4 | 1 | | L | | L | | | I | | _ | L | I | |
| 139 140 141 142 143 144 145 146 147 148 | | | 4 | 4 | | L | _ | L | 4 | _ | Ļ | 4 | | L | 1 | _ |
| 140 141 142 143 144 145 146 147 148 | | | + | + | _ | L | | Ļ | 4 | _ | Ļ | _ | _ | Ļ | 1 | _ |
| 141 142 143 144 145 146 147 148 | | | +- | + | _ | H | 4 | _ | + | _ | ╀ | - | _ | ╀ | 4 | ᅱ |
| 142 143 144 145 146 147 148 | 114 | 44 | ┿ | + | _ | H | 4 | | + | | ╀ | -} | _ | L | 4 | 4 |
| 143 144 145 146 147 148 | | | ╀ | + | _ | ŀ | 4 | _ | 4 | _ | L | - | | - | 4 | 4 |
| 144 145 146 147 148 | | | + | + | - | L | - | _ | + | _ | 1 | 4 | _ | - | + | \dashv |
| 145 146 147 148 149 | | | + | + | ۲ | H | \dashv | _ | + | | \vdash | + | | \vdash | + | \dashv |
| 146 147 148 149 | | | + | \dagger | - | _ | \dashv | | + | | \vdash | + | | \vdash | + | \dashv |
| 147 148 149 | | | T | t | - | _ | + | _ | + | | Н | + | | H | \dagger | \dashv |
| 149 | | | \top | Ť | | _ | 7 | _ | † | | Н | + | | Г | † | \dashv |
| 149 150 | | | I | Ī | | _ | 1 | | T | | Г | + | _ | Т | t | \dashv |
| 150 | 14 | 19 | \Box | I | | _ | I | | I | | | | | | Ι | ╛ |
| | 15 | o | <u></u> | L | 1 | _ | _[| | L | | _ | \perp | | | I | |

If more than 150 claims or 10 actions staple additional sheet here